AC207 Series
High Temperature Accelerometer, Top Exit Connector/Cable, 100 mV/g

PRODUCT FEATURES
High Temperature (325°F) Sensor
Proven Sensor for Standard High Temperature Applications.
6D Version Features Armor and Heavy Duty Teflon® Jacketed Cable with Armored Shield for Demanding Applications

Specifications
Standard
Part Number AC207

Metric
M/AC207

Vibration

Sensitivity (± 10 %) 100 mV/g
Frequency Response (± 3 dB) 30 CPM to 750 kCPM, 0.5 Hz to 12.5 kHz
Frequency Response (± 10 %) 120 CPM to 360 kCPM, 2 Hz to 6 kHz
Dynamic Range ± 80 g, peak

Electrical

Setting Time < 2.5 seconds
Voltage Source (IEPE) 18 Vdc to 30 Vdc
Constant Current Excitation 2 mA to 10 mA
Spectral Noise @ 10 Hz 8 µg/√Hz
Spectral Noise @ 100 Hz 0.82 µg/√Hz
Spectral Noise @ 1 kHz 0.3 µg/√Hz
Output Impedance < 100 ohm
Bias Output Voltage 10 Vdc to 14 Vdc
Case Isolation > 10⁹ ohm

Environmental

Temperature Range -88°F to 325°F
Maximum Shock Protection 5 kg, peak
Electromagnetic Sensitivity CE
Sealing Welded, Hermetic (IP68)

Physical

Sensing Element PZT Ceramic
Sensing Structure Shear Mode
Weight 3 ounces 86 grams
Case Material 316L Stainless Steel
Mounting 1/4-28
Connector (non-integral) 2 Pin MIL-C-5015
Resonant Frequency 1380 kCPM 23 kHz
Mounting Torque 2 ft·lb to 5 ft·lb 2.7 N·m to 6.8 N·m
Mounting Hardware 1/4-28 Stud M6x1 Adapter Stud
Calibration Certificate CA10

TYPICAL FREQUENCY RESPONSE

Sensitivity Deviation vs. Frequency (Hz)